

CLAIMS:

We claim:

1. A leg assembly consisting of a horizontal top member of U-shaped cross section with a pair of flanges attached to a top end thereof, said flanges protruding in opposite outward directions from a central vertical axis of the member; and a horizontal bottom member of U-shaped cross section with a pair of flanges attached to a top end thereof, said flanges protruding in opposite outward directions from a central vertical axis of the bottom member; that nest into localized cutouts in the center of the ends of two vertical members, also of U-shaped cross section with a pair of flanges attached to a top end thereof, said flanges protruding in opposite outward directions from a central vertical axis of the vertical members; and are mechanically fastened together at their adjacent mating surfaces, to form a rectangular frame structure, with each of said outward protruding flanges orientated outboard of the center of the said frame assembly.
2. A shelf assembly consisting of a horizontal member of U-shaped cross section with a pair of flanges attached to a top end thereof, said flanges protruding in opposite outward directions from a central vertical axis of the member, with said outward protruding flanges locally removed from one end of the said horizontal member; said horizontal member nests into the center of a vertical member of U-shaped cross section with a pair of flanges attached to a top end thereof, said flanges protruding in opposite outward directions from a central vertical axis of the member, by inserting the end of the said horizontal member with said removed outward protruding flanges into the central opening of the said vertical member, and are mechanically fastened together at their adjacent mating surfaces to form an L-shaped support assembly, with the said outward protruding flanges of the said horizontal member orientated upward.
3. A shelf assembly as in claim 2, further comprising:

a horizontal member with each of said outward protruding flanges having a plurality of predrilled holes and said horizontal member sized in length, front to rear, to accept the fastening of an integer number of like pieces of a specified size of standard dimensional lumber spanning its top surface; said horizontal member to accept the fastening of twice as many of said integer number of like pieces of a specified size of standard dimensional lumber pieces forming a butt joint at the central vertical axis of the horizontal member.

4. A shelf assembly as in claim 2, further comprising:

a shelf vertical member with installed spacers and protruding shoulder rivets on its outward protruding flanges, with manufactured heads of said spacers and protruding shoulder rivets located outboard of the member's surfaces, that is assembled to a leg vertical member by placing the said manufactured heads of the said shoulder rivets into the said vertical leg's teardrop hole pattern and in doing so, the said spacers ensure a mate offset condition, equivalent to the width of the said spacers, between the opposing said outward protruding flanges of the shelf vertical member and the said outward protruding flanges of the leg vertical member; said gap achieving the required clearance necessary for installing additional components, that also incorporate shoulder rivets, onto the said outward protruding flanges of the leg vertical member without the need of removing the shelf vertical member.

5. A dual-purpose support bracket of L-shaped cross section, containing a pair of shoulder rivets located towards each end of the longer flanged surface; said bracket serves as a shelf support when the short flanged surface is orientated upward and the said bracket is attached to leg members; said bracket serves as a small bin support when the said short flanged surface is located downward and said bracket is attached to vertical shelf members.

6. A rail assembly consisting of a J-shaped cross section channel, with longest surface of said cross section orientated upward, has two extension brackets welded to the outboard surface of the center